

An oxide film is formed on an object made of a magnesium material. For the film formation, the object is immersed into an electrolyte that contains insoluble particles and alkali metal hydroxide. In the electrolyte, the object is anodized to be coated with an oxide film. In the presence of the insoluble particles dispersed in the electrolyte, the oxide film takes in nearby particles as it is growing on the object during the anodizing process.

15

(Fig. 1)